HIV/AIDS Epidemiology in Massachusetts

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Trends in HIV Infection and Death among People Reported with HIV/AIDS by Year: Massachusetts, 2005–2015

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/17
People Diagnosed with HIV Infection, Massachusetts, 2013–2015

N=1,994

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/17
Stages of HIV Care Among People Living with HIV/AIDS in Massachusetts

Among engaged in care, 84% are virally suppressed.

Among those retained in care, 88% are virally suppressed.

- **PLWHA**: N=19,135
- **Engaged in Care**: N=14,190
- **Retained in Care**: N=10,884
- **Virally Suppressed in 2014**: N=11,916

*Lab received by MDPH*

1 Includes individuals diagnosed through 2014 and living in MA as of 1/1/16, based on last known address, regardless of state of diagnosis.

- Data Source: MDPH HIV/AIDS Surveillance Program, cases reported through 1/1/17
Care Continuum for PLWHA in Massachusetts\(^1\) – by Race/Ethnicity

* Lab received by MDPH

\(^1\) Includes individuals diagnosed through 2013 and living in MA as of 1/1/16, based on last known address, regardless of state of diagnosis

- Data Source: MDPH HIV/AIDS Surveillance Program, cases reported through 1/1/17, NH=non-Hispanic
Care Continuum for PLWHA by Mode of Exposure: Massachusetts

<table>
<thead>
<tr>
<th>Mode of Exposure</th>
<th>Engaged in Care*</th>
<th>Retained in Care*</th>
<th>Virally Suppressed*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSM</td>
<td>76%</td>
<td>56%</td>
<td>67%</td>
</tr>
<tr>
<td>IDU</td>
<td>73%</td>
<td>59%</td>
<td>59%</td>
</tr>
<tr>
<td>Het Sex</td>
<td>74%</td>
<td>59%</td>
<td>53%</td>
</tr>
<tr>
<td>Presumed Het</td>
<td>68%</td>
<td>58%</td>
<td>62%</td>
</tr>
<tr>
<td>Unknown</td>
<td></td>
<td>53%</td>
<td>56%</td>
</tr>
</tbody>
</table>

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1 Includes individuals diagnosed through 2014 and living in MA as of 1/1/16, based on last known address, regardless of state of diagnosis.

Data Source: MDPH HIV/AIDS Surveillance Program, data reported through 1/1/17.
Care Continuum for MSM Aged 20 to 29 Years by Race/Ethnicity: Massachusetts

- Engaged in Care*
  - All 20-29 MSM: 81%
  - White NH (174): 82%
  - Black NH (109): 86%
  - Hispanic/Latino (130): 82%

- Retained in Care*
  - All 20-29 MSM: 58%
  - White NH (174): 57%
  - Black NH (109): 67%
  - Hispanic/Latino (130): 54%

- Virally Suppressed*
  - All 20-29 MSM: 60%
  - White NH (174): 71%
  - Black NH (109): 62%
  - Hispanic/Latino (130): 73%

* Lab received by MDPH

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Data Source: MDPH HIV/AIDS Surveillance Program, data reported through 1/1/17.
Care Continuum for PLWHA by Health Service Region (HSR): Massachusetts

Engaged in Care*

- Boston: 73%
- Central: 76%
- Metrowest: 75%
- North East: 76%
- South East: 77%
- Western: 68%

Virally suppressed in 2014*

- Boston: 62%
- Central: 69%
- Metrowest: 63%
- North East: 58%
- South East: 66%
- Western: 60%

* Lab received by MDPH

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- Data Source: MDPH HIV/AIDS Surveillance Program, data reported through 1/1/17.
Data to Care

• Strategic Peer-Enhanced Care and Treatment Retention Model (SPECTRuM)
  – Nurse/Peer Enhanced medical case management
  – Surveillance out of care line list

• P4C and CoRECT
  – Surveillance driven out of care line list
  – Health department initiated re-engagement
Getting to Zero in MA

- **MA State Plan- 2021 Goals**
  - Reduce new HIV infections among MSM by 30%
  - Eliminate new HIV infections among PWID
  - 90% of newly diagnosed HIV+ individuals will be successfully linked to care within 45 days of the date of diagnosis
  - Improve HIV Care Continuum outcomes to 90/90/90 (90% diagnosed; 90% retained in care; and 90% of PLWH virally suppressed)
  - By 2021, eliminate progression to AIDS among PLWH
- Integrated HIV/HCV/STI screening at publically funded sites
- PrEP demonstration project
- Getting to Zero Coalition- AIDS Action Committee
  - [http://www.gettingtozeroma.org/](http://www.gettingtozeroma.org/)

Research Questions

• How can we understand better the racial disparities among people living with HIV/AIDS?
• What changes are we seeing in terms of HIV diagnosis trends in PWID (IDU attributed)?
• What impact does PrEP utilization have on STD testing?
• How can Field Epi's be deployed to maximize linkage and reengagement in HIV care - which models work best?